

Attorney's Docket No.: 05770-154001 / A



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Bruce B. Gamble et al.

Art Unit : 2834

Serial No.: 09/909,412

Examiner: Le, Dang D

Filed

: July 19, 2001

Title

: TORQUE TRANSMISSION ASSEMBLY FOR USE IN SUPERCONDUCTING

ROTATING MACHINES

Commissioner for Patents Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

Copies of the references listed on the attached form PTO-1449 are enclosed. A copy of a communication from a foreign patent office in a counterpart application is also enclosed.

This statement is being filed after a first Office action on the merits, but before receipt of a final Office action or a Notice of Allowance. I, the undersigned, hereby certify that each item of information contained in this statement was cited in a communication from a foreign patent office in a counterpart foreign application, the communication being dated January 16, 2003, which is not more than three months prior to the filing of this statement.

CERTIFICATE OF MAILING BY FIRST CLASS MAIL

I hereby certify under 37 CFR §1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the Commissioner for Patents, Washington, D.C. 20231.

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Signature

Typed or Printed Name of Person Signing Certificate

Applicant: Bruce B. Gamble et al. Attorney's Docket No.: 05770-154001 / ASC-537

Serial No.: 09/909,412 Filed: July 19, 2001

Page : 2

Please apply any charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Whanis

Date: March 14, 2003

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Sheet	1	of	1

Superbute Form PTO-1449
(Moodfield)
Information
(Use seve

U.S. Department of Commerce Patent and Trademark Office

Attorney's Docket No. 05770-154001

Application No. 09/909,412

Information Disclosure Statement by Applicant (Use several sheets if necessary) Applicant
Bruce B. Gamble et al.

Filing Date
July 19, 2001

Group Art Unit 2834

₩R §1.98(b))

U.S. P

			U.S. Pate	ent Documents			
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA	4,295,068	10/13/1981	Gamble	310	52	
	AB	4,291,997	09/29/1981	Laskaris	403	24	
	AC						
	AD						
•	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

	Foreign Patent Documents or Published Foreign Patent Applications							
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass		lation No
	AL	EP 04340361	11/26/1992	EPO	H02K	55/04	Abst.	
	AM	EP 61231873	10/16/1986	EPO	H02K	55/04	Abst.	
	AN							
	AO							
	AP							

	Other Documents (include Author, Title, Date, and Place of Publication)				
Examiner Initial	Desig. ID	Document			
	AQ				
	AR				
	AS				
	AT				

Examiner Signature	Date Considered
EVANINED 111 11 11 11 11 11 11 11 11 11 11 11 1	
EXAMINER: Initials citation considered. Draw line through citation if no	it in conformance and not considered. Include copy of this form with
next communication to applicant.	• • • • • • • • • • • • • • • • • • • •

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

Attn. Occhiuti, Frank R. 225 Franklin Street Boston, Massachusetts 02110–2804 UNITED STATES OF AMERICA FISH & R	Date of mailing (day/month/year) (CEVER PROPERTIES AND ADDRESS OF TRANSMITTAL OF				
Applicant's or agent's file reference					
05770-154W01	FOR FURTHER ACTION See paragraphs 1 and 4 below				
International application No.	International filing date				
PCT/US 02/21963	(day/month/year) 11/07/2002				
Applicant					
AMERICAN SUPERCONDUCTOR CORPORATION					
1. X The applicant is hereby notified that the International Search Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claim When? The time limit for filing such amendments is norma International Search Report; however, for more det Where? Directly to the International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Fascimile No.: (41–22) 740.14.35 For more detailed instructions, see the notes on the accor 2. The applicant is hereby notified that no International Search Article 17(2)(a) to that effect is transmitted herewith. 3. With regard to the protest against payment of (an) addition the protest together with the decision thereon has beer applicant's request to forward the texts of both the protest	Initials: CP Report will be established are application (see Rule 46): In the International Application (see Rule 46): In the International Application (see Rule 46): Initials: Initi				
no decision has been made yet on the protest; the app	licant will be notified as exercased degris Brils made Secretary				
Further action(s): The applicant is reminded of the following:	Due Date: Deadline: M60				
Shortly after 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.					
Within 19 months from the priority date, a demand for international wishes to postpone the entry into the national phase until 30 mo	nths from the priority date (in some Offices even later).				
Within 20 months from the priority date, the applicant must perfor before all designated Offices which have not been elected in the priority date or could not be elected because they are not bound	e demand or in a later election within 19 months from the				

Name and mailing address of the International Searching Authority

European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016

Authorized officer

Federico Bonomelli

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international pbulication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rute 46.2).

Where a demand for international preliminary examination has been its filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
 "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers;
 claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
 - "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 05770-154W01		of Transmittal of International Search Report (20) as well as, where applicable, item 5 below.						
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)						
PCT/US 02/21963	11/07/2002	19/07/2001						
Applicant								
AMERICAN SUPERCONDUCTOR CORPORATION								
This International Search Report has been according to Article 18. A copy is being tra	n prepared by this International Searching Auth	nority and is transmitted to the applicant						
This International Search Report consists It is also accompanied by	of a total of4 sheets. a copy of each prior art document cited in this	report.						
Basis of the report								
	international search was carried out on the bases otherwise indicated under this item.	sis of the international application in the						
the international search w Authority (Rule 23.1(b)).	as carried out on the basis of a translation of the	he international application furnished to this						
b. With regard to any nucleotide an was carried out on the basis of the		ternational application, the international search						
i —	nal application in written form.							
filed together with the inte	rnational application in computer readable form	n						
	this Authority in written form.							
	this Authority in computer readble form. sequently furnished written sequence listing d	one not an herrord the disclosure in the						
international application as	s filed has been furnished.	bes not go beyond the disclosure in the						
the statement that the info furnished	rmation recorded in computer readable form is	s identical to the written sequence listing has been						
2. Certain claims were four	nd unsearchable (See Box I).							
3. Unity of invention is lack	king (see Box II).							
4. With regard to the title ,								
X the text is approved as sul	bmitted by the applicant.							
the text has been establish	ned by this Authority to read as follows:							
5. With regard to the abstract,								
the text is approved as submitted by the applicant. The text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.								
6. The figure of the drawings to be publi	shed with the abstract is Figure No.	2						
X as suggested by the applic	cant.	None of the figures.						
because the applicant faile	•							
because this figure better	characterizes the invention.							

International application No.

INTERNATIONAL SEARCH REPORT

PCT/US 02/21963

Box III TEXT OF THE ABSTRACT (Continuation of item 5 of the first sheet)

A rotor assembly includes at least one superconducting winding assembly (40) positioned within a cryogenic region of the rotor assembly, and a cantilevered member (30), mechanically coupled between the at least one superconducting winding assembly and the shaft. The cantilevered member extends between the non-cryogenic region and cryogenic region of the rotor assembly. The at least one superconducting winding assembly, in operation, generates a magnetic flux linking the stator assembly.

INTERNATIONAL SEARCH REPORT

International Application No PCT/US 02/21963

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 H02K55/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

 $\begin{array}{ll} \mbox{Minimum documentation searched (classification system followed by classification symbols)} \\ \mbox{IPC 7} & \mbox{H02K} \end{array}$

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

PAJ, EPO-Internal

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
(PATENT ABSTRACTS OF JAPAN vol. 011, no. 077 (E-487), 7 March 1987 (1987-03-07) -& JP 61 231873 A (TOSHIBA CORP), 16 October 1986 (1986-10-16) abstract; figures 1-7	1,2,4-7, 13, 25-29,36
K	US 4 295 068 A (GAMBLE BRUCE B) 13 October 1981 (1981-10-13) abstract; figure 1 column 5, line 4 - line 14	1,2,4-6, 25-29, 35,36

Further documents are listed in the continuation of box C.	χ Patent family members are listed in annex.		
Special categories of cited documents: A' document defining the general state of the art which is not considered to be of particular relevance E' earlier document but published on or after the international filing date L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) O' document referring to an oral disclosure, use, exhibition or other means P' document published prior to the international filing date but later than the priority date claimed	 "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention invention. "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone. "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family 		
Date of the actual completion of the international search	Date of mailing of the international search report		
10 January 2003	16/01/2003		
Name and mailing address of the ISA	Authorized officer		
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Contreras Sampayo, J		

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US 02/21963

	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
(US 4 291 997 A (LASKARIS EVANGELOS T) 29 September 1981 (1981-09-29) abstract; figures 1,2	1-3,5,6, 15,25, 26,28, 29,36
	column 2, line 28 - line 50 	
(PATENT ABSTRACTS OF JAPAN vol. 017, no. 193 (E-1351), 15 April 1993 (1993-04-15) -& JP 04 340361 A (CHIYOUDENDOU HATSUDEN KANREN KIKI ZAIRIYOU GIJIYUTSU KENKIYUU KUMIAI), 26 November 1992 (1992-11-26) abstract; figures 6,7	1,2,4-7, 13, 25-29,36

1

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/US 02/21963

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
JP 61231873	Α	16-10-1986	NONE		
US 4295068	Α	13-10-1981	NONE		
US 4291997	Α	29-09-1981	NONE		
JP 04340361	Α	26-11-1992	JP	3302705 B2	15-07-2002